Support For SINCIAIC

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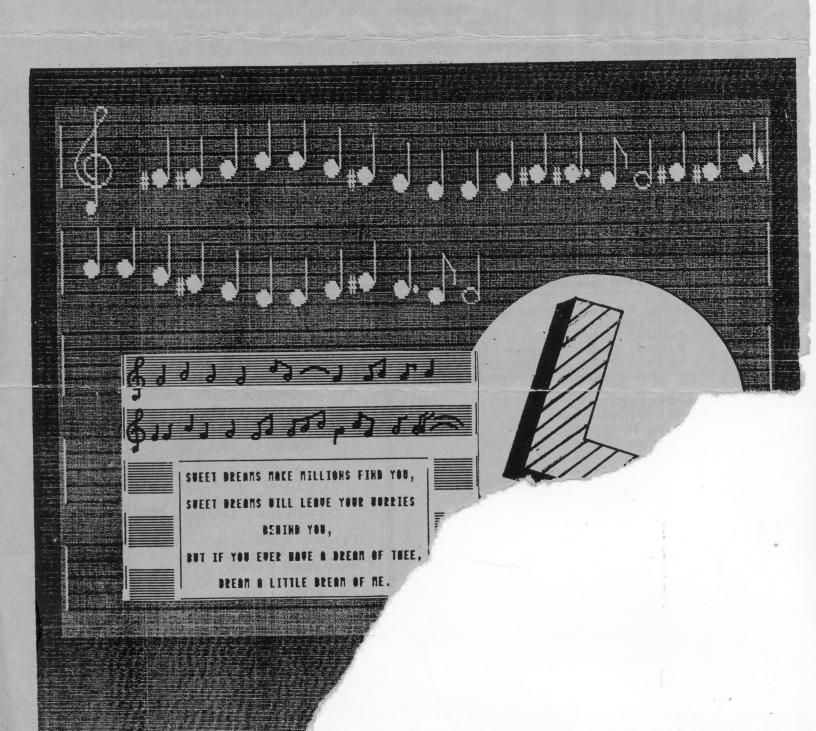
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TIMEX sinclaid

1000 - 1500 - 2068 computers TIMEX/sinclair User Group News-Magazine

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FRUNT

-TAS-BAM, Inc.



DESK-TOP PUBLISHING FOR THE SINCLAIR QL

TIMELINEZ Information

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Managing Editor: Andy Hradesky Co-Editors:

EBZUG: John Ezike P.U.G: George Mockridge GUTS: Bill Miller (SincLink) TASBAM:George Featherman

Marin idge

ertising: Gil Blasingame Ndy Hradesky nge Mocknidge Make all N/L Exchange correspondence to:

TIMELINEZ P.O. Box 1312 Pacifica, CA 94044 ATTN: George Mockridge

Back issues of TIME-LINEZ, 7/83 thru 12/87 Contact Bill Miller at:

SincLink 6675 Clifford Drive Cupertino, CA 95014

Issues 1/88 - present, contact your editor at American Micro.

The PDSE Library is now available to all; covering T/S1000–1500, T/S 2068, Spectrum and the QL.

ontact American Micro in further details. IMELINEZ_



Here starts a new column for our members and subscribers. With this addition, we are trying to move TIMELINEZ just a bit from being classified as "a club news letter", but not quite as far as an "official" magazine (TIME **DESIGN**M is better apt for that). What is our goal? Put simply, we find that there are many user groups across America for some reason or another do not have their own news-letter. The reasons range from the size of the club to a lack of interest, or funds (huh, kinda sounds fam-iliar). Our objective is to become a single combined newsletter to user groups across the nation that do not have their own. Basically, all the subject user group needs to do is submit a list of activities pertaining to fairs, meetings, workshops, etc. and an article or two. This way, the club isn't "put-out" by the troubles that prevented them from publishing their own. As you can see this plan of action is rather infant staged at pre-sent. TIMELINEZ just started experimenting with this. If you notice the User-Group Info, last Page, a new group has joined our realm. TAS-BAM, Inc. is trying us out since they haven't had their news-letter KEYBOARDS for some time now. So, when information is provided, they will have a page titled KEYBOARDS. We are also in contact with S.U.G. of Depew, NY and are avaiting their approval. If as many as 5 or 6 clubs combine their resources for this publication, just imagine the amount of information we'll learn together.

All this brings to mind another topic. You have probably noticed that SincLink is extreemly small this issue. Well, to project what was said above, Bill Miller is trying to create a different type of font/format that will permit better ease of viewing. SincLink does provide us with some interesting information,

880901.1344;; 190 WORDS;; (S)LIX;; (F)ormat;; Filename:: sf88 (sk8803) (1 Page);;

**SLIX File & Record Format 88::..

** SLIX Files begin with a

'Header Record' in the form::

'Time Stamp Field'

(YYMMDD. HHMM- Time of last

update);; 'File Size Field';;

'System Indicator Field';;

'File Type Field';; 'File Name

Field' (with previous File

Name(s)) and (number_of_Pages

(sub files));; 'File Width

Field' (Dashes indicate number

of characters wide the file

is);; 'File Description Field...

* Records begin with an asterisk and are delimited by one blank line before and after.. Indent one space for lines belonging to the same paragraph (field)..

Fields are delimited by double punctuation marks::

** Double periods mean 'end of paragraph or field'..

** Fields starting with asterisks force a 'new line'...

** Double colons mean 'a list follows'..

** Double semi-colons are the usual field delimiter for predefined records..

** Double ampersands indicate
the following field is the last
field in the current list &&

** The last record in the file
has the form:: 'File Width

Field';; 'Time Stamp Field' (Time file was started);; 'File Name Field';; 'END' Field..

DEADLINE FOR NEXT ISSUE IS: --->>> NOVEMBER 13, 1988 <<<---

B 12 10-1-15

EPROMS ARE ALIVE AND WELL,...

and living in Redwood City,

Well alive yes — but not moving too swiftly. Burning a program into an EPROM, headers needed for auto run, and hardware requirements have all been worked out. Now EPROM applications are needed.

EPROMS can replace the internal ROM(s) to provide corrections, customization, and expansion of the computer's operating system. Replacing the internal ROMs with EPROMs require some rewiring but all the internal ROMs are in sockets. Unfortunately, the TS1500 ROM is in a 24 pin socket which does not lend itself to replacement by EPROM.

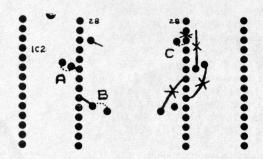
Application programs can be run directly in the EPROM if certain conditions are met. These conconditions are met. These conditions are met. These conditions include: all variables must be in RAM, the code must run at EPROM addresses, and of course the number of bytes must fit in the EPROM. Copying the program from EPROM to RAM overcomes these restrictions but uses up RAM space.

ZX81/T51000:

Devices such as ROMPAK adapt the rear expansion bus for an &K_EPROM. The external &K EPROM cannot be used if an internal 16K EPROM has been installed (see below) as it uses the same memory area.

Machine code can be run in EPROM but BASIC programs must be copied into RAM.

The internal 8K ROM is in a 28 pin socket so a 8K or a 16K EPROM can be installed. Four traces must be cut and three jumpers must be installed. (See figure below.)



COMPONENT SIDE SOLDER SIDE

X = cut trace ABC= .jumper (Jumper C connects to pin 26.)

ZX81 CHANGES FOR EPROM.

T51500:

Timex designed the TS1500 for auto load program cartridges. If the transistor on a ROMPAK is removed, the ROMPAK can work like an auto load cartridge. A 136 byte header on the EPROM is required for autoload. The program must be autoload. The program must be in BASIC and 8056 bytes or less. The BASIC program is copied into RAH.

T52068:

There are two internal ROMs in the T52068, the HOME ROM and the XROM (extension ROM).
The HOME ROM is 1564 only 36 bytes unused.

The XROM is 8K in a 28 pin socket. Because it operates in its own bank, you have a choice of replacing it with an 8K, 16K, or 32K EPROM.

T52068 cartridge requirements have been well documented. BASIC programs on cartridge run by copying only one line at a time into RAM. This frees up RAM memory for other HEPS.

My current projects include modem to modem transfer of code from one computer to another and writing short machine code functions and utilities.

The modem to modem transfer will permit moving programs from a TS1500 to a TS2068 for making auto load EPROMS for the TS1500. The T2068 has an assembler and a monitor to add the header.

I have modified a TS2068 for internal EPROMs. Adding short machine code routines extends the keywords without using any RAM memory. These extensions can be used from BASIC, machine code, or in the command mode.

My HOME EPROM has been changed so if the keyword STEP is entered followed by a number (0-255), the program jumps to a routine in an XROM EPROM. I currently have about 50 such routines and am adding more. The routines will have to average less than 40 bytes each to allow all 256 routines to fit in the space avaitable.

If I can help with one of your projects send a SASE to:

Bob Orrfelt 3436 Bay Road. Redwood City, CR 94063

or call (415) 369-9163

WELCOME TO THE SINCLAIR LOTTO SIMULATOR

On June 4, 1988 Lotto fever hit CA. The jackpot reached over \$50 MILLION. Could YOU have won? Play SLS and see. All you need is a T/S 2068, time & L U C K.

10 REM This program can be compiled using TIMACHINE.

14 REM Program by George Mockridge 8/88.

18 REM INT +p(),r(),i,j,k,c,pl ays,p,beep 22 REM ! OPEN #

23 LET c\$="

24 RANDOMIZE Ø 25 LET n=0: LET net=0: LET pic k3=0: LET pick4=0: LET pick5=0 25 INK 9: BORDER 4: PAPER 5: L ET beep=0: CLS : GO SUB 30: GO T 0 38

30 PRINT AT 0,9; "WELCOME TO TH

34 PRINT AT 1,5; "SINCLAIR LOTT SIMULATOR": RETURN

34 PRINT AT 1,5; "SINCLAIR LOTT O SIMULATOR": RETURN
38 PRINT AT 3,0; "On June 4, 19 88 Lotto fever hit", "CA. The ja ckpot reached over", "\$50 MILLION COULD YOU have won?"; AT 6,0; "P Lay SLS and see. All you need", "is a T/S 2068, time & L U C K."
42 PRINT AT 21,0; "PLEASE ENTER YOUR FULL NAME": INPUT n\$
43 PRINT AT 20,0; "IS THIS A CO NTINUATION OF A"; AT 21,0; "PREUIO US GAME? (y or n) ": LET p\$=I NKEY\$: IF p\$

NKEYS: IF P

44 IF ps="y" THEN GO 5UB 300 46 PRINT AT 19,0;"How many \$1 tickets do you want";AT 20,0;"to buy for each twice-a-week";AT 2 1,0;"drawing? (ENTER 1-5) INPUT plays

47 IF plays (1 OR plays) 5 THEN GO TO 46

48 CLS : GO SUB 30 49 DIM p(5,6): FOR i=1 TO 5: I OR j=1 TO 6: LET p(i,j)=0: NEXT j: NEXT i: FOR i=1 TO plays 50 PRINT AT 16,0; "You may now pict 6 d:fferent"

Pick 6 different" 54 PRINT AT 17,0; "no.s between

54 PRINT AT 17,0; "no.s between 1 and 49 for play "; i 66 FOR j=1 TO 6 70 PRINT AT 21,0; "ENTER PICK N). "; j 74 INPUT p 78 IF p<1 OR p>49 THEN FLASH 1 PRINT AT 17,5; "between": FLASH 0: GO TO 74 82 FOR k=1 TO 5

0: GU 10 74 82 FOR k=1 TO 6 86 IF p=p(i,k) THEN FLASH 1: P RINT AT 16,19; "different": FLASH 0: GO TO 74 90 NEXT k

94 LET p(i,j)=p 98 PRINT AT 19,j*3-3;p(i,j) 102 PRINT AT 16,19;"different"; T 17,5;"between" 103 NEXT j

103 NEXT ; 104 PRINT AT 3,0;n\$: FOR k=1 TO 6: PRINT AT i+4,0;"Your play";i _" #'s";AT i+4,12+k*3;p'i,k): NE

105 NEXT ; 106 PRINT AT 19,0; c\$: NEXT i 110 PRINT AT 16,0; c\$; AT 17,0; c\$ 105 NEXT ;AT 21,0;C\$
114 PRINT AT 21,0;"(c)COPY (b)B
EEP ON/OFF (s)STOP"
115 IF INKEY\$="C" THEN COPY
116 IF INKEY\$="S" THEN : BEEP 1 116 IF INKEY\$= \$ INEN : BEEF 1, 1: STOP
117 IF INKEY\$="b" THEN LET beep
=ABS (beep-1): BEEP 1, 1
126 DIM r(6): FOR k=1 TO 6
128 REM Lines 129-133 are an attempt to generate a true random no.To see a win sequence, change 49 to 6 in line 132. Choose 1-6 for pick1 #'s.

129 LET ns=n: IF COS (ns*k) = Ø T HEN LET ns=ABS (SIN (n*k)/COS (ns*k)): LET ns=ns-INT ns 131 LET nr=RND 132 LET r=ns+nr: LET r=r-INT r 133 LET r=INT (r*49+1) 134 FOR L=1 TO 6 138 IF r=r(() THEN GO TO 129 142 NEXT (146 LET r(k) =r: NEXT k
150 PRINT AT plays +5,0; "Winning no.s"; AT plays +5,15; c\$;: INVERS E 1: FOR k=1 TO 6: PRINT AT play s+5,k*3+12; r(k);: NEXT k: INVERS 152 LET n=n+1: LET net=net+play 153 FOR i=1 TO plays 154 LET C = Ø 158 FOR k=1 TO 6 162 FOR j=1 TO 6 166 IF r(k)=p(i,j) THEN LET c=c GO TO 174 170 NEXT 174 NEXT 178 IF c=3 THEN LET pick3=pick3 1: LET net=net-5 182 IF c=4 THEN LET pick4=pick4 1: LET net=net-50 186 IF c=5 THEN LET pick5=pick5 +1: +1: LET net=net-5000 +1: LET net=net-5000

190 PRINT AT plays+7,0;"You have wagered \$";plays;" twice a wee k";AT plays+8,0;"for ";INT (n/104);" yrs. & ";INT (n-INT (n/104)*104)/2); " weeks. ";AT plays+9,0;"Your net loss is "
191 IF net 0 THEN PRINT AT plays+9,9;"win "
192 PRINT AT plays+9,17::"#".pt s+9,9;"Win "
192 PRINT AT plays+9,17;;"\$";AT
plays+9,18;AB5 net;".";c\$
193 PRINT AT plays+11,0;"3/6 ma
tches(pays \$5) = ";pick3;AT play
s+12,0;"4/6 matches(pays \$50) = "
;pick4;AT plays+13,0;"5/6 matche
5(pays \$5K) = ";pick5;: IF c=6 TH
FM GO TO 198 s (pays \$5K) = EN GO TO 198

195 IF c>2 AND c<6 AND beep=0 T
HEN FOR k=1 TO c: BEEP .3,k*k: B
ORDER INT (RND*8): NEXT k: FOR k
=1 TO 150: BORDER INT (RND*8): N
EXT k: PRINT #1;AT 0,0;c\$: PRINT
#1;AT 1,0;c\$

196 NEXT : 197 GO TO 115

198 INVERSE 1: FLASH 1: PRINT AT 4.0; "YOU WIN \$50 MILLION YOU WIN ": FLASH 0 : INVERSE 0

a de la

202 PRINT AT 21,0; "Press any key to turn off alarm."
206 BEEP .5,20: BEEP .5,10
210 IF INKEY\$="" THEN GO TO 206
214 PAUSE 25: PRINT AT 19,0; "Uh
0 is best? Make a screen copy.";
AT 20,0; "Mail to TIMELINEZ PO BO
X 1312"; AT 21,0; "PACIFICA, CA 94
044 - Be Honest"
215 STOP
300 PRINT AT 20,0; c\$; AT 21,0; c\$
304 PRINT AT 21,0; "ENTER NUMBER
0F YEARS PLAYED.": INPUT y
305 PRINT AT 21,0; "ENTER NUMBER
0F WEEKS PLAYED.": INPUT w: LET
n=y*104+w*2
307 PRINT AT 21,0; "ENTER NET LO
SS (<UIN>) TO-DATE.": INPUT net
310 PRINT AT 21,0; "ENTER NO. OF
310 PRINT AT 21,0; "ENTER NO. OF
4/6 MATCHES TO-DATE": INPUT pic
k3
312 PRINT AT 21,0; "ENTER NO. OF
4/6 MATCHES TO-DATE": INPUT pic
k4
314 PRINT AT 21,0; "ENTER NO. OF
5/6 MATCHES TO-DATE": INPUT pic
k5
319 PRINT AT 21,0; C\$
319 PRINT AT 21,0; C\$

WELCOME TO THE SINCLAIR LOTTO SIMULATOR

George Mockridge

Your play1 #'s 7 11 13 23 47 49
Your play2 #'s 21 24 33 35 39 49
Your play3 #'s 1 4 23 45 21 10
Your play4 #'s 17 12 19 40 45 2
Your play5 #'s 3 31 47 20 18 42
Winning no.s

You have wagered \$5 twice a week for 74 yrs. & 44 weeks. Your net loss is \$29145.

3/6 matches (pays \$5) = 647 4/6 matches (pays \$50) = 31 5/6 matches (pays \$5K) = 1



"OH GOSH! IF I COULD ONLY WIN!"

Famous last words from 99.99% of all Lotto player each week. "Well, for some of us, that's just not enough! I like more of a challenge or thrill, I want more control over my money". Quoted like true patriots, so, instead of playing table games, these people end up at the slot machines. For this, thanks goes to Bob Schubel. He patiently converted this program, which originated in the Sanyo forum of CompuServe, from MS/DOS to our own SuperBasic using PC/IMPORTS.

10 REMark ** Uploaded to CIS 12/28/86 20 REMark ** Bob Schubel CIS#71320,262 30 REMark ** 100 WINDOW 486, 256, 0, 0: PAPER 0: INK 4: CLS: BORDER 1,255 110 RANDOMISE: DIM Z(6) 120 M=100: CLS: GO SUB 1310 130 CLS: INK 4 140 PRINT\\" OK ";: INK 7: PRINT N\$;: INK 4: PRINT". Here are the odds:" 150 INK 2: AT 5, 10: PRINT "SYMBOL HOW MANY PAYOUT" 160 INK 4: AT 6, 10: PRINT 170 AT 7, 10: INK 2: PRINT "CHERRY ";:INK 7:PRINT" 3 \$6.00" 180 INK 2: AT 8, 10: PRINT "CHERRY "::INK 7:PRINT" 2 "; 181 INK 4: PRINT" LEFT & MID WINDOWS ONLY!" 190 INK 2: AT 9, 10: PRINT "CHERRY ";: INK 7: PRINT"1 191 INK 4: PRINT" LEFT WINDOW ONLY!" 200 INK 2: AT 11, 10: PRINT "PLUM ";: INK 7: PRINT"3 210 INK 2: AT 12, 10: PRINT "ORANGE ";: INK 7: PRINT"3 \$50.00" 220 INK 2: AT 13, 10: PRINT "*BAR* ";: INK 7: PRINT"3 \$100.00" 225 INK 4: AT 14, 10: PRINT 230 INK 2: AT 15, 10: PRINT " LEMONS ALWAYS LOSE" 240 INK 4: AT 20,5: PRINT "When the message ";: INK 7: PRINT" PULL ";: INK 4 241 PRINT"appears, press ";: INK 7: PRINT"ENTER ";: INK 4: PRINT" to"; : INK 7 242 PRINT" PULL." 250 INK 4: AT 21,5: PRINT "Or type ";: INK 7: PRINT" END ";: INK 4 251 PRINT" to end the session." 260 AT 23,5: PRINT "When you are ready to begin press ";: INK 7: PRINT" ENTER."; 261 INPUT Z9\$ 270 L\$=CHR\$ (186) 280 S\$=CHR\$ (205) 290 B\$=CHR\$ (186) 300 DIM W\$ (4,6)

310 W\$ (1) ="CHERRY": W\$ (2) =" ": W\$(3)="*BAR* ": W\$(4)=" PLUM " 320 REMark "WHEEL ONE 330 DIM V\$ (7,6) 340 V\$(1)="ORANGE": V\$(2)=" PLUM ": V\$(3)="LEMON ": V\$(4)="*BAR* " V\$ (7)="CHERRY": V\$ (5)="CHERRY": V\$-(6)="CHERRY" 360 REMark "WHEEL TWO 370 DIM V1\$ (7,6) 380 V1\$(1)="*BAR* ": V1\$(2)="LEMON ": V1\$(3)=" PLUM " 390 V1\$(4)="CHERRY": V1\$(5)=" PLUM ": V1\$(6)="ORANGE": V1\$(7)="CHERRY" 400 REMark "WHEEL THREE 410 DIM V3\$ (5,6) 420 V3\$(1)=" PLUM ": V3\$(2)="*BAR* ": V3\$(3)="CHERRY": V3\$(4)="LEMON" 430 V3\$ (5)="ORANGE" 440 CLS: INK 4 450 Y=16: FOR X=1 TO 18: AT X, Y: PRINT SS: NEXT X 460 X=18: FOR Y=17 TO 50: AT X, Y: PRINT BS: NEXT Y 470 Y=51: FOR X=18 TO 1 STEP -1: AT X, Y: PRINT SS: NEXT X 480 X=1: FOR Y=50 TO 17 STEP -1: AT X, Y: PRINT LS: NEXT Y 490 REMark "ARM 500 AT 14,52: PRINT "/"; 510 Y=52: FOR X=13 TO 8 STEP -1: AT X, Y: PRINT "//"; : Y=Y+1: NEXT X 520 INK 2: FOR X=7 TO 6 STEP -1: AT X,57: PRINT FILL\$ (CHR\$ (196), 3): NEXT X 530 INK 7: AT 13, 28: PRINT "P A Y O U T": AT 14,33: INK 2 540 X=15: FOR Y=24 TO 42: AT X, Y: PRINT L\$ 550 FOR X=15 TO 17: AT X, 43: PRINT 560 FOR Y=42 TO 24 STEP -1: AT 17, Y: PRINT B\$ 570 FOR X=17 TO 15 STEP -1: AT X,23:PRINT S\$ 572 INK 4: AT 2,26: PRINT' - STEP RIGHT UP -' 575 AT 3,27: UNDER 1: PRINT ' \$3.00 A PULL ': UNDER O 580 REMark "*****LEFT WINDOW**** 590 INK 7: FOR Y=18 TO 26: AT 5, Y: PRINT LS 600 FOR X=5 TO 7: AT X, 27: PRINT S\$ 610 FOR Y=26 TO 18 STEP -1: AT 7, Y: PRINT B\$

620 FOR X=7 TO 5 STEP -1: AT X, 18: PRINT S\$ 630 REMark "*****MID WINDOW**** 640 FOR Y=30 TO 37: AT 5, Y: PRINT 650 FOR X=5 TO 7: AT X, 38: PRINT S\$ 660 FOR Y=37 TO 30 STEP -1: AT 7, Y: PRINT B\$ 670 FOR X=7 TO 5 STEP -1: AT X,29: PRINT S\$ 680 REMark "****RIGHT WINDOW**** 690 FOR Y=41 TO 48: AT 5, Y: PRINT 700 FOR X=5 TO 7: AT X, 49: PRINT S\$ 710 FOR Y=48 TO 41 STEP -1: AT 7, Y: PRINT BS 720 FOR X=7 TO 5 STEP -1: AT X,40: PRINT S\$ 730 REMark "DO YOU PULL OR END 740 amt 750 INK 2: AT 22,30: PRINT "PULL/END ";: INPUT A\$: INK 4 760 AT 16,24: PRINT E\$; E\$; E\$; E\$;" 770 E\$=" ": AT 6, 19: PRINT E\$; E\$: AT 6, 30: PRINT E\$; E\$: AT 6,41: PRINT E\$; E\$ 780 IF A\$=="END" OR A\$=="E" THEN GO TO 1280 785 M=M-3: amt 790 REMark " * PICK THE WHEELS 800 FOR I=1 TO 2:Z(I)=RND(1 TO 7) 810 Z(3) = RND(1TO 5)820 REMark "***** ROLL ALL WINDOWS AND PICK LEFT **** 830 INK 2: FOR X=1 TO 10 835 FOR Y=1TO 4 837 AT 6,20: PRINT W\$(Y) 840 AT 6,31: PRINT W\$(Y): AT 6,42: PRINT W\$ (Y) 845 END FOR Y 847 END FOR X 850 AT 6,20: PRINT V\$(Z(1)) 860 REMark " ***** ROLL MID AND RIGHT AND PICK MID **** 870 FOR X=1 TO 15 875 FOR Y=1TO 4 880 AT 6,31: PRINT W\$ (Y): AT 6,42: PRINT W\$ (Y) 885 END FOR Y 887 END FOR X 890 AT 6,31: PRINT V1\$(Z(2)) 900 REMark "***** ROLL RIGHT AND PICK RIGHT **** 910 FOR X=1 TO 20 915 FOR Y=1TO 4

925 END FOR Y

927 END FOR X

A KIND

920 AT 6,42: PRINT W\$ (Y)

930 AT 6,42: PRINT V3\$(Z(3))

940 INK 4: REMark "DO I HAVE 3 OF

2200

950 IF V\$(Z(1))<>V1\$(Z(2)) THEN GO TO 1080 960 IF V1\$(Z(2))<>V3\$(Z(3)) THEN GO TO 1080 970 IF V\$(Z(1))<>"CHERRY" THEN GO TO 990 980 AT 16,27: PRINT "YOU WIN \$6.00": M=M+6: GO TO 730 990 IF V\$(Z(1))<>" PLUM " THEN GO TO 1010 1000 AT 16,27: PRINT "YOU WIN \$20.00": M=M+20: GO TO 730 1010 IF V\$(Z(1))<>"ORANGE" THEN GO TO 1030 1020 AT 16,27: PRINT "YOU WIN \$50.00": M=M+50: GO TO 730 1030 IF V\$(Z(1))<>"*BAR* " THEN GO TO 1050 1040 AT 16,27: PRINT "YOU WIN \$100.00": M=M+100: GO TO 730 1050 INK 2: REMark "LEMONS 1060 AT 16,28: PRINT "LEMONS LOSE: ": M=M-3: GO TO 730 1070 REMark 1080 REMark "DO I HAVE CHERRIES 1090 IF V\$(Z(1))<>"CHERRY" THEN GO TO 1170 1100 IF V1\$(Z(2))<>"CHERRY" THEN GO TO 1150 1110 REMark 1120 REMark "2 CHERRIES 1130 AT 16,27: PRINT "YOU WIN \$3.00": M=M+3: GO TO 730 1140 REMark 1150 REMark " 1 CHERRY 1160 AT 16,26: PRINT "YOU WIN \$1.50": M=M+1.5: GO TO 730 1170 REMark 1180 INK 4: REMark " GOT SCHMALTZ 1190 ON Z(3) GO SUB 1210, 1220, 1230, 1240, 1250, 1260, 12-70 1200 GO TO 730 1210 AT 16,25: PRINT "TRY BINGO INSTEAD": RETurn 1220 AT 16,25: PRINT "HA HA YOU LOSE": RETurn 1230 AT 16,26: PRINT "ZILCH -ZERO": RETurn 1240 AT 16,25: PRINT "TRY AGAIN SUCKER": RETurn

1250 AT 16, 25: PRINT "TRY VEGAS INSTEAD": RETurn 1260 AT 16,25: PRINT "YOU GOT SCHMALTZ": RETurn 1270 AT 16,25: PRINT "BACK TO STAR TREK": RETurn 1280 AT 16,26: PRINT "BYE-BYE"; N\$ 1290 AS=INKEYS: IF AS="" THEN GO TO 1290 1300 STOP 1310 CLS 1320 GO TO 1420 1321 FOR J=2 TO 22 1330 AT 2,2:PRINT CHR\$ (36): AT 2,77: PRINT CHR\$ (36) 1340 AT 23,2:PRINT CHR\$ (36):AT 23,77: PRINT CHR\$ (36) 1350 AT J, 2: PRINT CHR\$ (36) 1360 AT J, 77: PRINT CHR\$ (36) 1370 NEXT J 1380 FOR J=3 TO 77 1390 AT 2, J: PRINT CHR\$ (36) 1400 AT 23, J: PRINT CHR\$ (36) 1410 NEXT J 1420 INK 2: AT 4,4: PRINT "W E L C OME TO . . . " 1430 AT 8,30: PRINT "S A N Y O ' S CASINO" 1440 INK 4: AT 15, 4: PRINT "Today you will lose your money at SANYO'S ": 1441 PRINT" famous slot machine." 1450 AT 16,4: PRINT "You have been given a credit line of \$100.00. 1451 PRINT"Therefore at \$3 a pull you" 1460 AT 17,4: PRINT "have a minimum of 33 pulls!" 1470 INK 2: AT 20, 4: PRINT "By the way what is your name ";: INPUT N\$ 1480 RETurn 1490 DEFine PROCedure amt 2000 INK 4: AT 21, 24: PRINT "YOU NOW HAVE ";:INK 7:PRINT'S"; M 2010 END DEFine

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USER GROUP MEETINGS ARE ALWAYS OPEN TO THE PUBLIC AT NO CHARGE. GUEST ARE HIGHLY ENCOURAGED TO ATTEND.

HAPPY COMPUTING.....THE EDITORS

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PRESIDENT: GEORGE MOCKRIDGE

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.

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THIS CAPABLE!



Z88 Technical Specification

Design Four-chip design-CPU, ROM, RAM, gate array.

7 U 270 (CMOS).

JJM 128V. containing operating system and applications software together with 8 SV Asserber

RAM 32% x_1 and t via (28), 128% 512K and 1 megabyte to a maximum 3 negabytes, bat e.g.: ked from the computer.

CPROM Up to 's megabytes removable storage capacity via 32K, 128K, 512K and 1 megabyte packs.

Applications software Pipedream word-processing and spreadsheet applications. Dat base. Calculator, diary, calendar, clock, alarms, printer editor, come as 'po_{r'}m' screens.

Operating system OZ operating software, allows task-switching between applications without loading or exiting.

Language/Assem' ler Powerful BASIC.

Display 8×106 characters 'supertwist' LCD. Includes 8×80 working area, page map (shows where you are on a complete page), battery strength, alarm status.

Power 4 AA batteries provide 20 hours active computing or one year on standby.

Ports Three for memory—pack expansion, RS232 for popular printers and data import export.



Z88 Accessories

RAM Packs Require no external power, and are available with 32K, 128K, and 512K capacity. 1 megabyte RAM packs available soon.

EPROM Packs Solid-state permanent storage, available in 32K, 128K and 512K. 1 megabyte EPROM packs available soon.

EPROM Eraser Z88 EPROM Eraser, completely deletes EPROM data—leaves you with a blank EPROM pack, ready for re-use.

PCLINK Consisting of software diskette and RS232 serial cable, allows transfer and receipt of ASCII files between the Z88, and an IBM or compatible PC. Also converts Z88 Pipedream files into either Wordstar or Lotus 1-2-3 files.

Links for other PCs available shortly.

Serial Printer Cable connects the Z88 to any printer with a standard serial port.

Parallel Printer Cable connects the Z88 to any printer with a standard parallel port.

AMERICAN MICRO COMMECTION
2175 ABORN ROAD
SUITE 262
SAN JOSE, CA 95121
(488) 278-9738

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